

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

§ 87(2)(b)

1. This Information Disclosure Statement is submitted:
- a. ☐ within 3 months of the filing date of a national application other than a continued prosecution application under § 1.53(d);
- ☐ within 3 months of the date of entry of the national stage as set forth in § 1.491 in an International application;
- ☒ before the mailing date of a first Office Action on the merits; or
- ☐ before the mailing of a first Office Action after the filing of a request for continued examination under § 1.114.

- b. ☐ after the events of above paragraph 1a and prior to the mailing date of a final Office Action or Notice of Allowance, and thus: ☐ the certification of paragraph 2 below is provided, or ☐ a fee of \$180.00 is enclosed.
- c. ☐ after the mailing date of a final Office Action or a Notice of Allowance and prior to payment of the issue fee, and thus: the certification of paragraph 2 below is provided and a fee of \$180.00 is enclosed.
2. It is hereby certified:
- ☐ that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or
- ☐ that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in § 1.56 (c) more than three months prior to the filing of the Statement.
3. ☐ Consideration of the following additional information (including any co-pending or abandoned U.S. applications, prior uses and/or sales, etc.) is requested:
4. For each non-English language reference listed on the attached Form PTO-1449:
- ☐ reference is made to an English language translation submitted herewith, and/or
- ☐ reference is made to a foreign patent office search report (in the English language) submitted herewith, and/or
- ☐ reference is made to an English language translation of a foreign patent office search report submitted herewith, and/or
- ☐ reference is made to the concise explanation contained in the specification of the present application at page(s) _____, and/or
- ☐ reference is made to the concise explanation set forth below:
5. ☐ Applicant also offers the following comments for the Examiner's consideration:
6. ☐ Also enclosed is a copy of a foreign search report citing these references.
7. ☐ The listed documents were brought to the attention of the Applicant(s) after payment of the issue fee in the captioned case. The documents were cited in a communication from a foreign patent office in a counterpart foreign application

not more than three months prior to the filing of this Information Disclosure Statement. Applicant(s) request this Information Disclosure Statement and attached Form PTO-1449 be placed in the file of the captioned application.

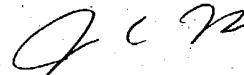
8. ☐ Applicant(s) request that the Information Disclosure Statement and attached Form PTO-1449 and references, which are being filed before the grant of the patent and pursuant to 37 C.F.R. § 1.97(i), be placed in the file of the captioned application.

CHANGE OF ADDRESS

The Patent Office is respectfully requested to direct all future correspondence for this case to the below-referenced address.

If any required fees are missing, the Commissioner is authorized to charge said fees to Meyertons, Hood, Kivlin, Kowert & Goetzel PC Deposit Account No. 50-1505/5460-00614/JCH.

Respectfully submitted,



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Date: 7/15/2003

Form PTO-1449 (modified)
List of Patents and Publications
For Applicant's Information
Disclosure Statement
(Use several sheets if necessary)

ATTY. DOCKET NO: 5460-00614

SERIAL NO: Unknown

APPLICANT: Ira David Hale

FILING DATE: Herewith

GROUP: Unknown

U.S. PATENT DOCUMENTS

EXAM. INITIALS	REF. DES	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	A1	4,908,781	03/13/1990	Levinthal et al.			
	A2	5,596,511	01/21/1997	Toyoda et al.			
	A3	6,124,857	09/26/2000	Itoh et al.			
	A4	5,859,645	01/12/1999	Latham			
	A5	5,923,777	07/13/1999	Chun et al.			

FOREIGN PATENT DOCUMENTS

EXAM. INITIALS	REF. DES	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION. YES/NO
	A6	0 974 936 A2	01/26/2000	EPO			

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	A7	Bentley et al. "Data Structures for Range Searching" Computing Surveys, Vol. II, No. 4, December 1979, pp 397-409.
	A8	Bern et al. "Mesh Generation and Optimal Triangulation" World Scientific, 1995, pgs. 1-78
	A9	Bossen et al. "A Pliant Method for Anisotropic Mesh Generation" Proceedings of the 5th International Meshing roundtable, p. 63-74, Sandia, 1996
	A10	Byrd et al, "Representations of Quasi-Newton Matrices and Their Use in Limited Memory Methods" Northwestern University, Technical Report NAM-03, June 1992, revised January 21, 1996.
	A11	Cebral et al. "From Medical Images to CFD Meshes" Proceedings of the 8th International Meshing Roundtable, pgs. 321-331, Sandia, 1999
	A12	Garrett et al. "Earth Model Synthesis" EAGE 1997, pp.13-20.
	A13	Mello et al. "A Point Creation Strategy for Mesh Generation Using Crystal Lattices as Templates" Proceedings of the 9th International Meshing Roundtable, pgs. 253-261, Sandia, 2000.
	A14	Kenji Shimada "Physically-Based Mesh Generation: Automated Triangulation of Surfaces and Volumes via Bubble Packing" Massachusetts Institute of Technology, 1993

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

Form PTO-1449 (modified) List of Patents and Publications For Applicant's Information Disclosure Statement (Use several sheets if necessary)			ATTY. DOCKET NO: 5460-00614		SERIAL NO: Unknown		
			APPLICANT: Ira David Hale				
			FILING DATE: Herewith			GROUP: Unknown	
U.S. PATENT DOCUMENTS							
EXAM. INITIALS	REF. DES	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
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EXAM. INITIALS	REF. DES	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION. YES/NO
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
	A15	Shimada et al. "Bubble Mesh: Automated Triangular Meshing of Non-Manifold Geometry by Sphere Packing" Proceedings of the Third Symposium on Solid Modeling and Applications, ACM Press, pgs. 409-419, 1995.					
	A16	ACMD: Yearly Report 1994-95, Applied and Computational Mathematics Division, March 1995, 4 pgs.					
	A17	Steve Langer, Information Technology Lab, Helpful Hints, 7/28/2000, 6 pages.					
	A18	Steve Langer, Recent Changes to PPM200F, 5/10/2001, 11 pages.					
	A19	ACMD: Yearly Report 1995-96, Applied and Computational Mathematics Division, June 1996, 8 pages.					
	A20	Labelle L. et al. "Computation of Image Representation Based on Active Triangular Meshes Through Geometrical Surface Evolution" Proceedings of the SPIE, Bellingham, VA, US, Vol. 3024, no. 2, February 1997, pages 843-854 XP000700348 and abstract.					
	A21	Shimada K. et al. "Bubble Mesh: Automated Triangular Meshing of Non-Manifold Geometry by Sphere Packing" Proceedings of the Third Symposium on Solid Modeling and Applications, Salt Lake City, May 17-29, 1995, Proceedings of the Symposium on Solid Modeling and Applications, NY, ACM, US, Vol. SYMP 3, May 17, 1995, pages 409-419, XP000530140, ISBN: 0-89791-672-7, abstract; figures 3, 4, 5, sections 3.1-3.5.					
	A22	International Search Report, Application No. PCT/US01/48239, mailed July 5, 2002.					
EXAMINER:				DATE CONSIDERED:			
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.							